

Java test – 8

```
abstract class Vehicle {  
    abstract void startEngine();  
    public void display() {  
        System.out.println("Vehicle is ready.");  
    }  
}  
  
class Car extends Vehicle {  
    @Override  
    void startEngine() {  
        System.out.println("Car engine started");  
    }  
}  
  
class Boat extends Vehicle {  
    @Override  
    void startEngine() {  
        System.out.println("Boat engine started");  
    }  
  
    public void anchor() {  
        System.out.println("Boat is anchored");  
    }  
}  
  
class Main { // No 'public' keyword here  
    public static void main(String[] args) {  
        Vehicle myCar = new Car();  
    }  
}
```

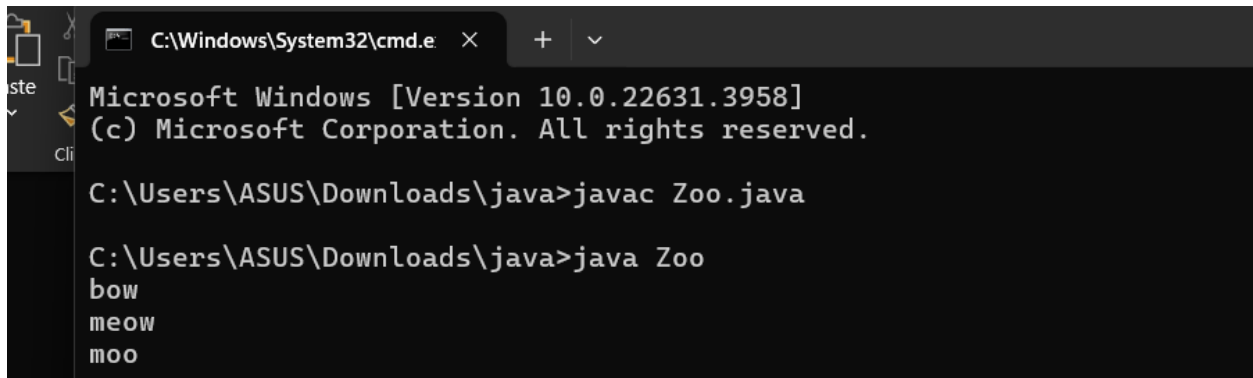
```
Vehicle myBoat = new Boat();

myCar.startEngine();

myBoat.startEngine();

}

}
```

A screenshot of a Windows Command Prompt window. The title bar shows the path 'C:\Windows\System32\cmd.e' and standard window controls. The window content displays the following text:
Microsoft Windows [Version 10.0.22631.3958]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ASUS\Downloads\java>javac Zoo.java

C:\Users\ASUS\Downloads\java>java Zoo
bow
meow
moo

```
interface Animal {

    void makeSound();

}
```

```
class Dog implements Animal {

    @Override

    public void makeSound() {

        System.out.println("bow");

    }

}
```

```
class Cat implements Animal {

    @Override

    public void makeSound() {

        System.out.println("meow");

    }

}
```

```
class Cow implements Animal {  
    @Override  
    public void makeSound() {  
        System.out.println("moo"); // Corrected the sound here  
    }  
}
```

```
public class Zoo {  
    public static void main(String[] args) {  
        Animal dog = new Dog();  
        Animal cat = new Cat();  
        Animal cow = new Cow();  
  
        dog.makeSound(); // Output: bow  
        cat.makeSound(); // Output: meow  
        cow.makeSound(); // Output: moo  
    }  
}
```

```
C:\Users\ASUS\Downloads\java>java Main  
Car engine started  
Boat engine started  
  
C:\Users\ASUS\Downloads\java>|
```